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☐ 1. Document ID: DE 4227600 A1, JP 2999632 B2, AU 9221145 A, FR 2680513 A1, CA 2075730 A, JP 05186730 A, US 5281262 A, DE 4227600 C2, IT 1256404 B, CA 2075730 C

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Feb 25, 1993

DERWENT-ACC-NO: 1993-068289

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TITLE: Aq. pigment ink compsn. for ball pen - contains alkylene oxide adduct with poly:glycerol, glycerol and/or tri:methylol-propane

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PRIORITY-DATA: 1992JP-0215684 (July 22, 1992), 1991JP-0232499 (August 21, 1991), 1991JP-0232500 (August 21, 1991), 1991JP-0232501 (August 21, 1991)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 4227600 A1</u>	February 25, 1993		009	C09D011/18
<u>JP 2999632 B2</u>	January 17, 2000		008	C09D011/18
<u>AU 9221145 A</u>	February 25, 1993		000	C09D011/18
<u>FR 2680513 A1</u>	February 26, 1993		021	C09D011/18
<u>CA 2075730 A</u>	February 22, 1993		000	C09D011/18
<u>JP 05186730 A</u>	July 27, 1993		009	C09D011/18
<u>US 5281262 A</u>	January 25, 1994		007	C09D011/18
<u>DE 4227600 C2</u>	September 14, 1995		011	C09D011/18
<u>IT 1256404 B</u>	December 5, 1995		000	C09D000/00
<u>CA 2075730 C</u>	December 31, 1996		000	C09D011/18

INT-CL (IPC): C08L 71/02; C09D 0/00; C09D 11/18

ABSTRACTED-PUB-NO: DE 4227600A

### BASIC-ABSTRACT:

Aq. pigment ink compsn. for ball pens contains a pigment (I), a dispersant (II), water and adduct(s) (III) of alkylene oxide (AO) with (a) polyglycerol, (b) glycerol, contg. 1-150 mole. AO/mole glycerol and/or (c) trimethylolpropane. The ink pref. contains 2-30 (wt.)% (I), 0.1-10% (II), 40-90% water and 0.5-40% (III). (III) is an adduct of 1-60 mole. AO on 2-4 mole. polyglycerol, 1-150 mole. AO on 1 mole. glycerol or 1-60 mole. AO on 1 mole. trimethylolpropane. (II) is a water-soluble polymer.

USE/ADVANTAGE - The compsn. avoids a high deg. of redn. of the surface tension,

which protects the writing from smudging. It also has good resistance to drying out and lubricates the ball we  
ABSTRACTED-PUB-NO:

DE 4227600C EQUIVALENT-ABSTRACTS:

Aq. pigment ink compsn. comprises pigment (2-30 wt.%); dispersion aid (0.1-10 wt.%); one or more adducts (0.5-40 wt.%) of an alkylene oxide and a polyol; and water (40-90 wt.%). Typical adduct are obtd. from polyglycerol (2-4 mol) and alkylene oxide (1-60 mol); glycerol (1 mol) and alkylene oxide (1-150 mol); and trimethylolpropane (1 mol) and alkylene oxide (1-60 mol.).

USE/ADVANTAGE - Prods. are aq. ink compsns. for ball pens. Prods. prevent tip of pen from drying out, and are free from excessive frictional effects.

US 5281262A

Aq. pigment ink compsn. comprises a pigment, a dispersant, water and 0.5-40 wt.% of at least one adduct of a polyhydric alcohol with an alkylene oxide selected from polyglycerine with an alkylene oxide, glycerine and 1-150 mols. of an alkylene oxide and trimethyloylpropane with an alkylene oxide. The dispersant is selected from water-soluble polymers, polyoxyalkylene, higher fatty esters, higher fatty acid partial esters of polyhydric alcohols, alkylated sulphonates of higher fatty acid amides and alkylallyl sulphonates.

Pref. the compsn. contains 2-30 wt.% of the pigment, 0.1-10 wt.% of the dispersant and 40-90 wt.% water. Phthalocyanine Blue, Permanant Red, etc. may be used as the pigment.

USE/ADVANTAGE - Used for ball point pens. Surface tension is inhibited preventing written letters from blurring. The ink has good non-drying properties and enough lubricating properties to smoothly rotate the ball and decrease friction on ball seat resulting in a more comfortable writing performance.

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